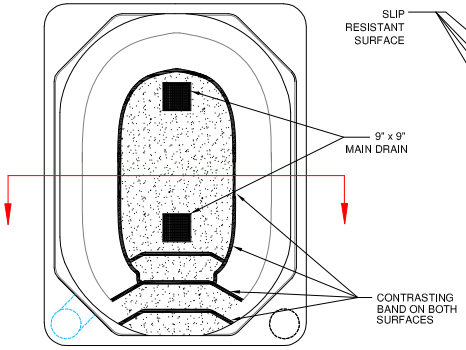
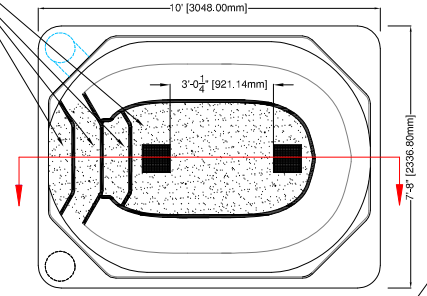
SHELL DIMENSIONS

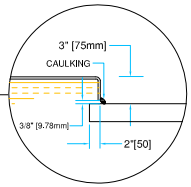
Dimensions differ between Spas. Exact measurements should be obtained from purchased Spa.

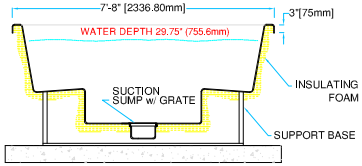
All equipment UL and UL-C approved.
All fittings N.S.F. and ANSI/ASME LISTED.

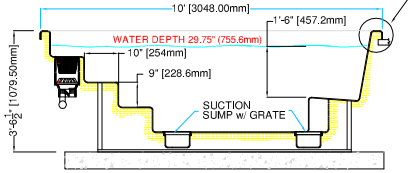
LENGTH	WIDTH	HEIGHT	VOLUME:	WEIGHT EMPTY	WEIGHT FULL	SURFACE AREA
120" [304.8cm]	92" [233cm]	42.5" [108cm]	@650 GI / 2457 Lt	750 lbs / 340 kg	7812 lbs / 3550 kg	48 sq.ft [4.32sq.m]

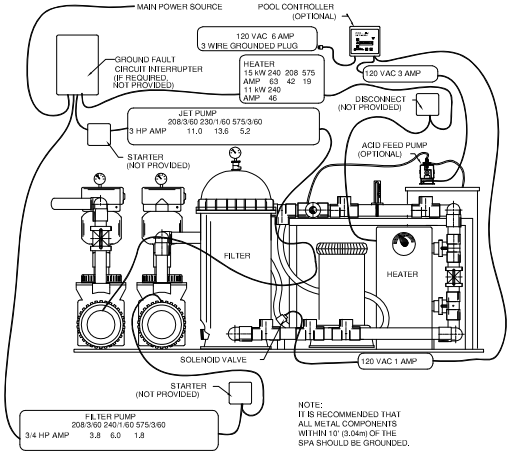


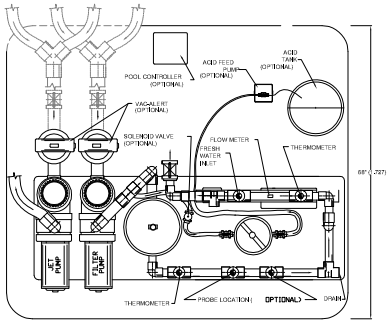


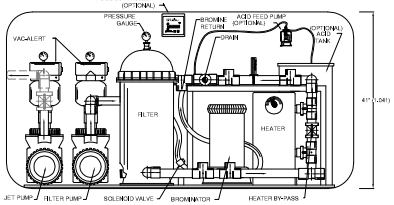












SPECIFICATIONS

1.1 The shell of the hot tub shall be manufactured of vacuum formed acrylic (.187 sheet) in one of two colours: Biscuit (Ivory Bone), Caribbean Quarite (Medium Blue). Hot tub shell overall dimensions:
120" x 92" x 42.5" deep. See dimensional information on this sheet.

1.2 The acrylic shall be further reinforced with fiberglass resins but may require additional on-site bracing supports (customer's responsibility) under the steps and seats.

1.3 The shell shall have the following fittings:

11 Large hydrotherapy jets
7 Medium hydrotherapy jets
1 Wide mouth skimmer, (N.S.F. Listed)
2 Bottom drain sumps with 2 9" x 9" removeable grates.
All suction fittings are VGB 2008 Approved (ANSI/ASME 112.19.8-2007) (Addendum 8a-2008) as per sec1404 of VGB 2008
2 Air control valves
1 Water level tank fitting with remote water level control tank
3 Filtered water return inlets

1.4 The hot tub will be insulated with a coating of polyurethane foam, factory plumbed and hydrostatically tested.

1.5 Recommended HCSP-3 mechanical support system will be shipped on a separate plastic base and shall consist of:

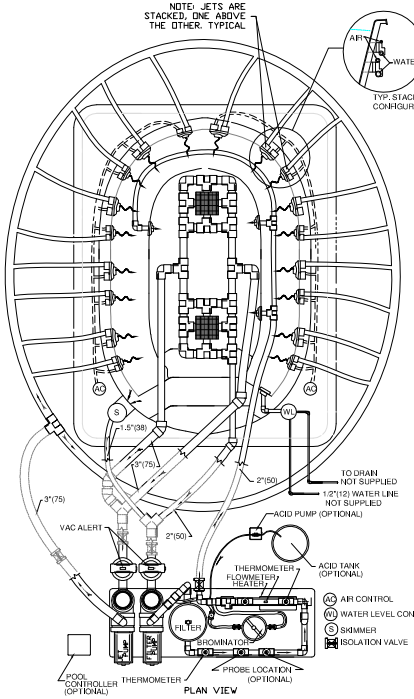
QTY.
1 3/4hp filter pump (N.S.F. Listed)
1 150 sq.ft. cartridge filter 9N.S.F. Listed)
1 3 hp hydrotherapy booster pump (N.S.F. Listed)
1 15 kW electric heater c/w flow switch
2 Inline thermometers c/w thermowell
1 Inline flowmeter
1 Link Chemistry Controller *
1 Brominator (N.S.F. Listed) with normally closed solenoid valve *
1 Acid feed pump with 15 gal solution tank c/w lid *
1 10 Minute timer for jet pump c/w contactor
1 Water level controller with overflow (located at the shell)
2 VA2000 Vacuum Release devices (ASME A112.1917-2002 Listed) *

1.6 Optional handrail with anchor and escutcheon plates or deck flange.

1.7 Warranties shall be 5 year on the shell structure, 2 years on the acrylic surface and one year on the plumbing, mechanical equipment and accessories. On-site plumbing is NOT covered.

1.8 Installation items NOT covered by this specification and considered "by others" are Plumbing between the spa shell and mechanical equipment location.
Electrical connections, motor, heater and component connections including motor starters and grounding of all electrical components.
Decking and access steps including deck drains.
Supports under the seats and steps of the shell.

* Inncluded with standard equipment package, optional with economy equipment package.



HYDRAULIC DESIGN

SPA VOLUME 650 usg
2461 Litre
TURNOVER 15 minutes
FILTER FLOW RATE
43 usgpm @ 60' T.D.H.
162.7 LPM @ 17.92 M hd
FILTER AREA 150 sq.ft.
13.9 sq.m.
OPERATING @.286 usgpm/sq.ft.
@ .19 L / S/ M.^{2}
FILTER PUMP 3/4 hp

20 HYDROTHERAPY FITTINGS
11 LARGE OPERATING @ 10 usgpm/ 37.8 Lpm
7 SMALL OPERATING @ 5 usgpm/ 18.9 Lpm
HYDROTHERAPY FLOW RATE
145 usgpm @ 60' TDH
624.6 LPM @ 17.92 M hd
HYDROTHERAPY PUMP 3 hp

TOTAL FLOW RATE
188 usgpm/ 712 Lpm
TOTAL OPEN AREA OF MAIN DRAINS
79.8 sq.in./ 514.8 sq.cm.
VELOCITY THROUGH MAIN DRAINS
.76 ft.sec/ 0.2316 m. sec

NOTE: IT IS THE REPONSIBILITY OF THE INSTALLER/OWNER TO VERIFY THAT THE SPA, EQUIPMENT AND SYSTEMS COMPLY WITH CODE REQUIREMENTS.

HydroTher

This drawing and the ideas, concepts, illustrative and written information represented thereby are the confidential and proprietary property of HYDROTHER. Reproduction of all or any part of this drawing or prints thereof, or any other unauthorized utilization of any confidential and proprietary property contained herein without the permission of HYDROTHER. Is forbidden.

No.	Date	Description
		Revisions

HYDROTHER
135 MATHESON BLVD. E.
MISSISSAUGA, ONTARIO
CANADA
L4Z 1R2

www.hydrother.com

Project

Title: Model H – 1100 C
VGB Model

Drawn By	smb
Scale	n.t.s.
Date	Sept. 30/07
Ch'd By	dp
Job No.	8002009

1